20070605600

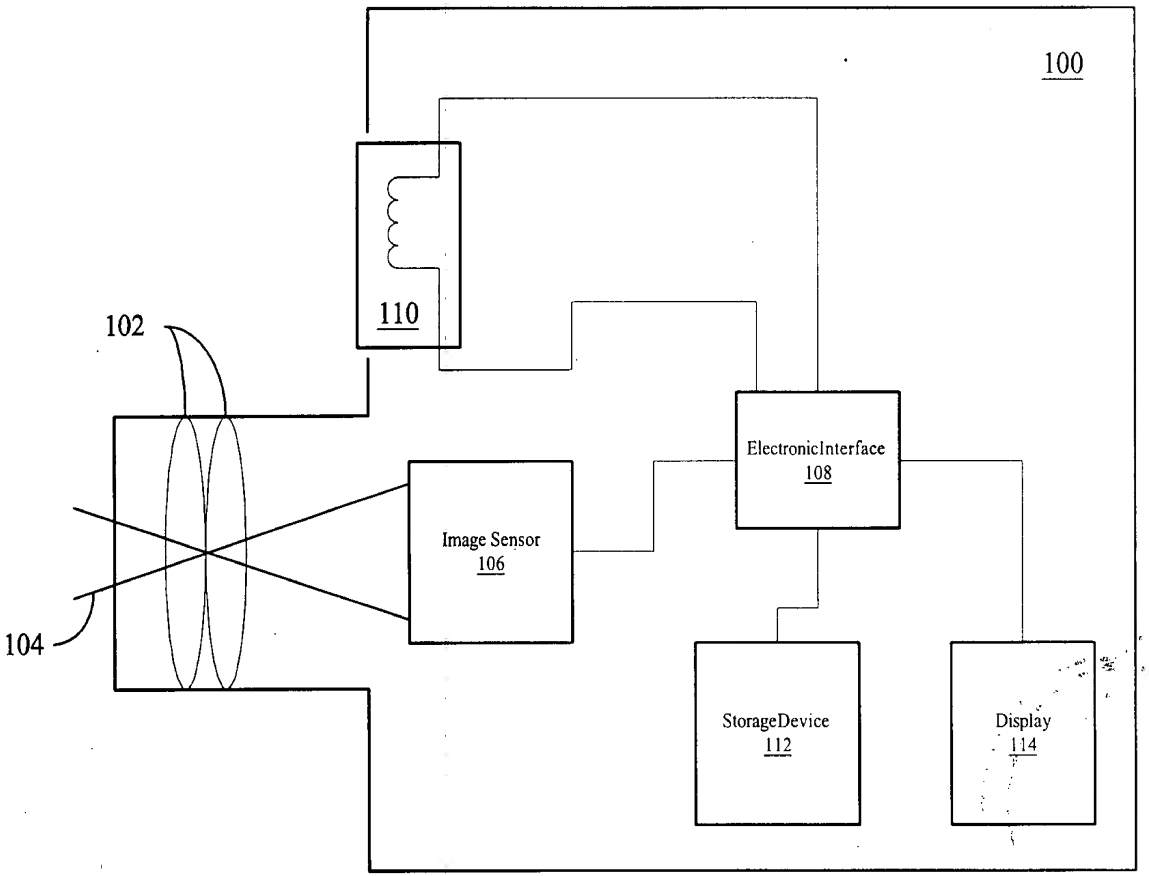


FIG.1

EP 2 079 228 A1

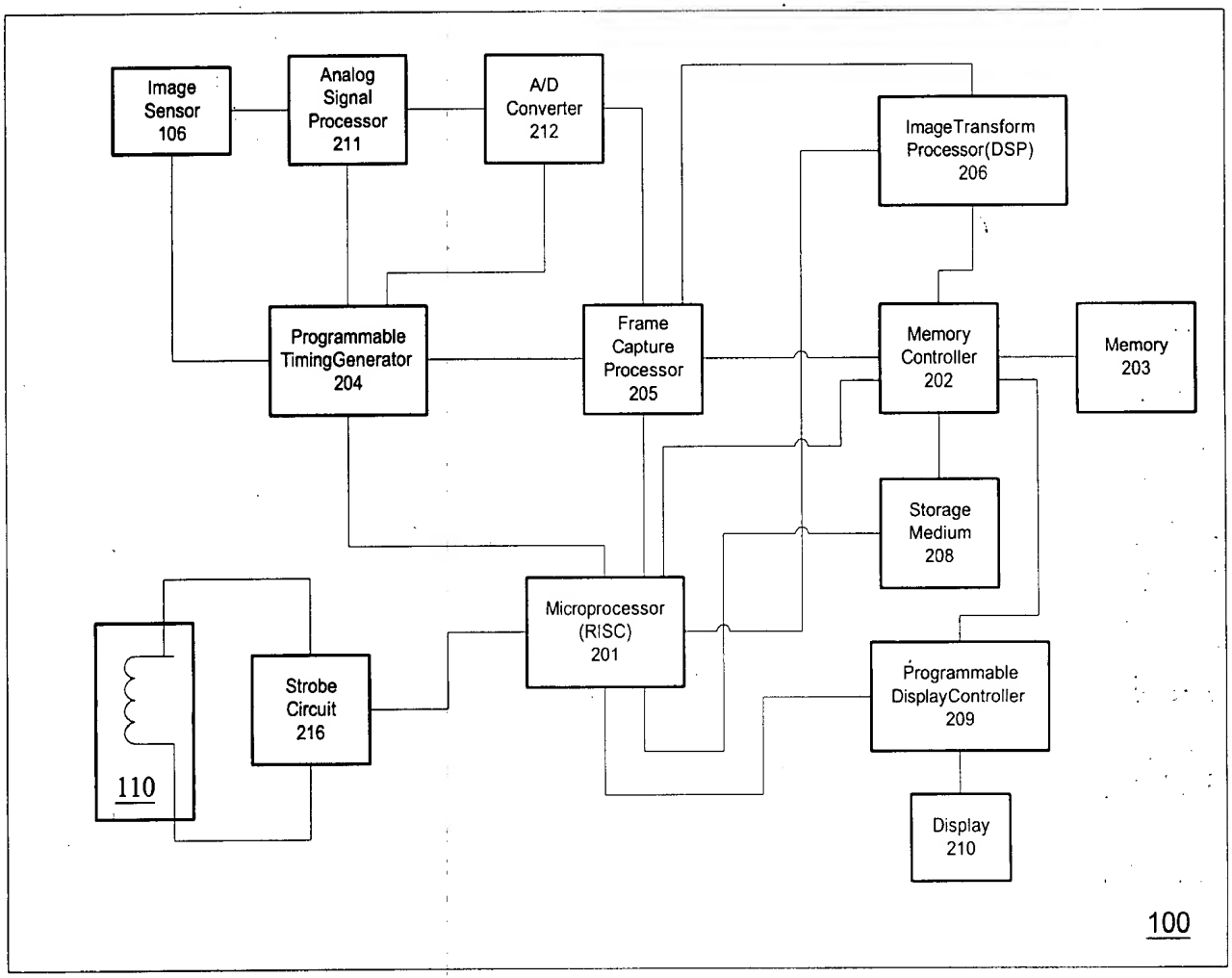


FIG.2

20070826T860

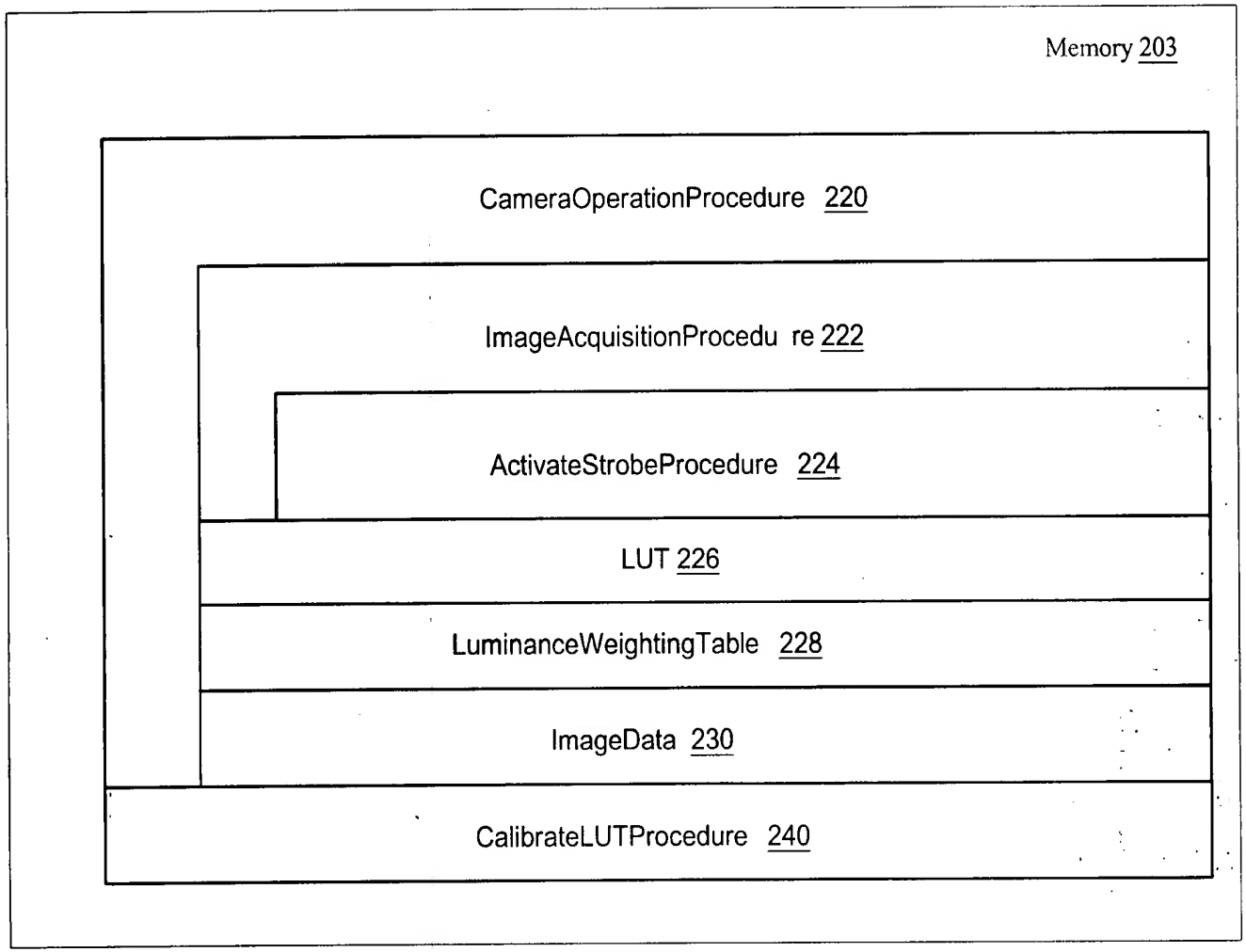


FIG.3

20070-820S7600

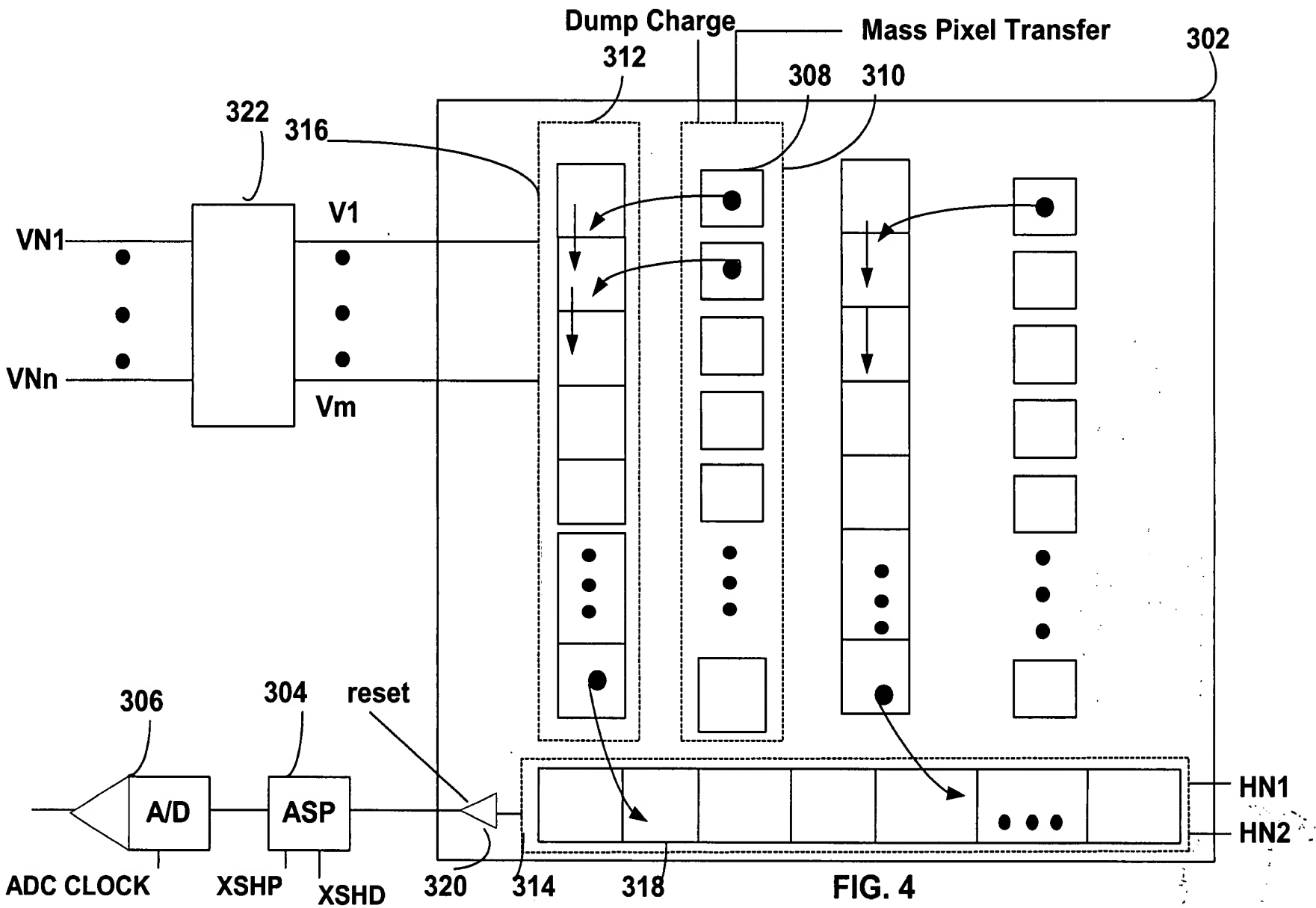


FIG. 4

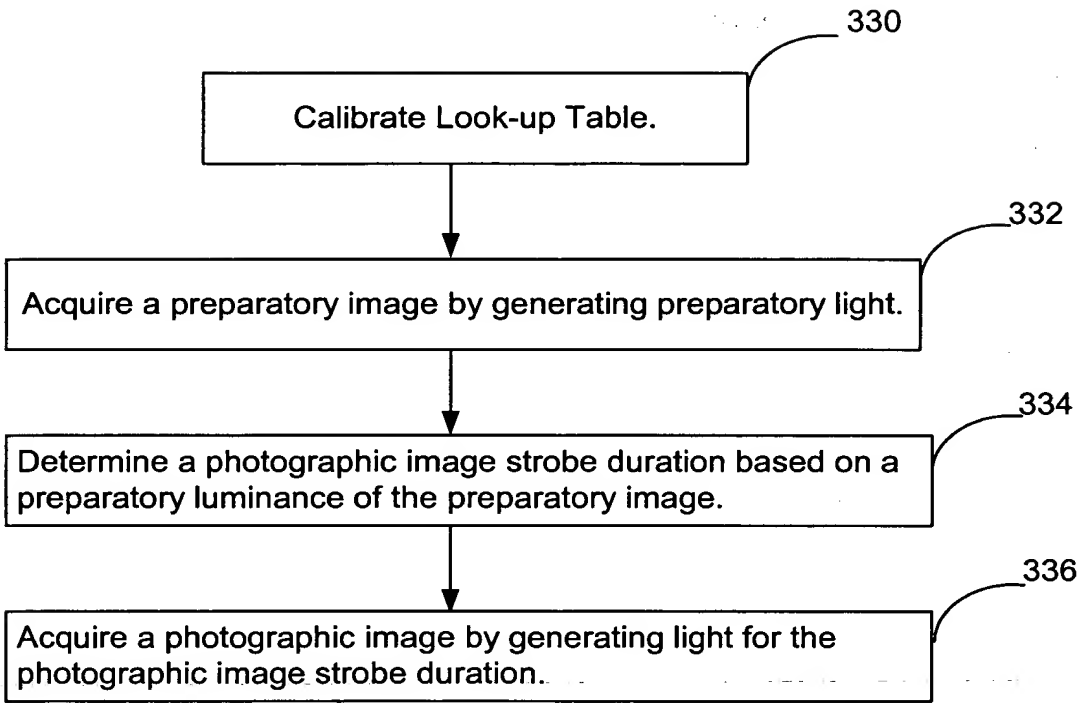
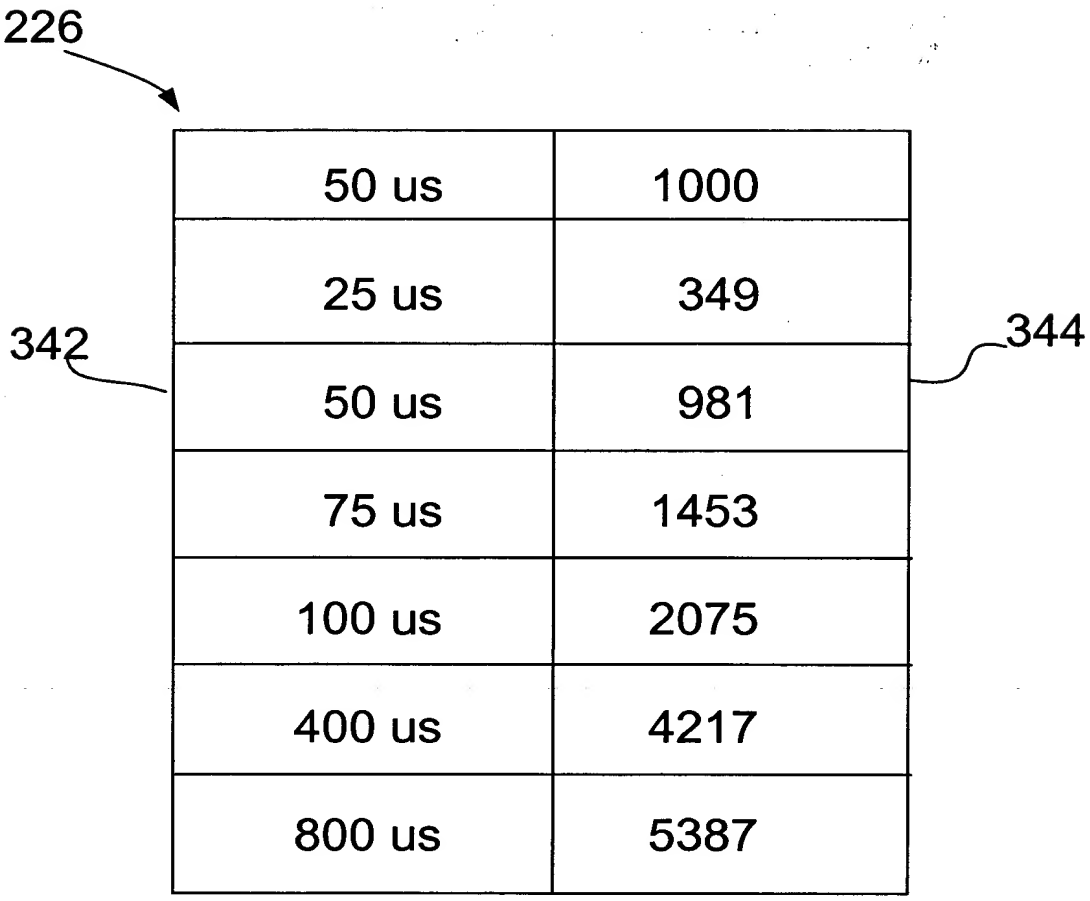

330
Calibrate Look-up Table.
332
Acquire a preparatory image by generating preparatory light.
334
Determine a photographic image strobe duration based on a preparatory luminance of the preparatory image.
336
Acquire a photographic image by generating light for the photographic image strobe duration.

FIG. 5



Look-up Table

FIG. 6

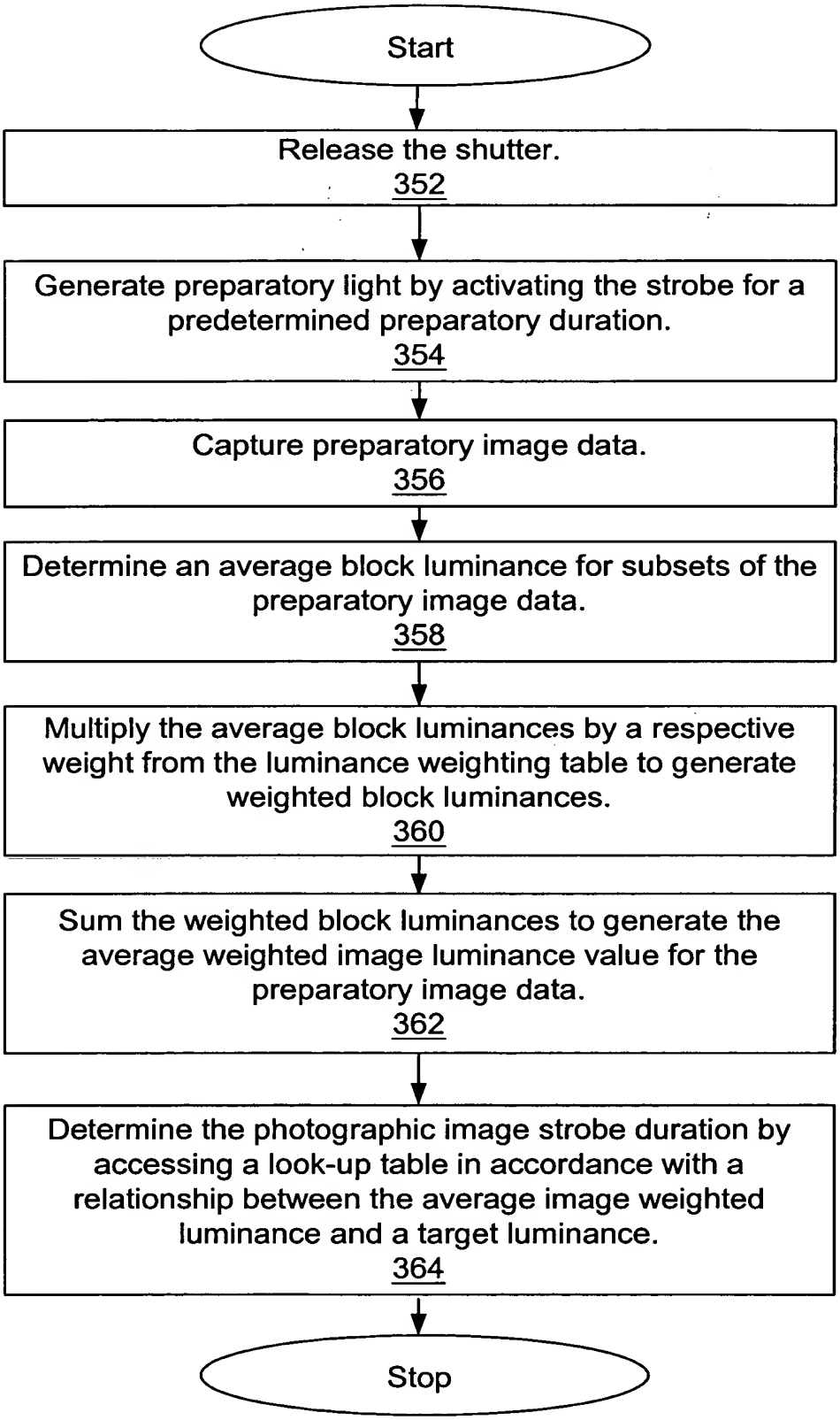
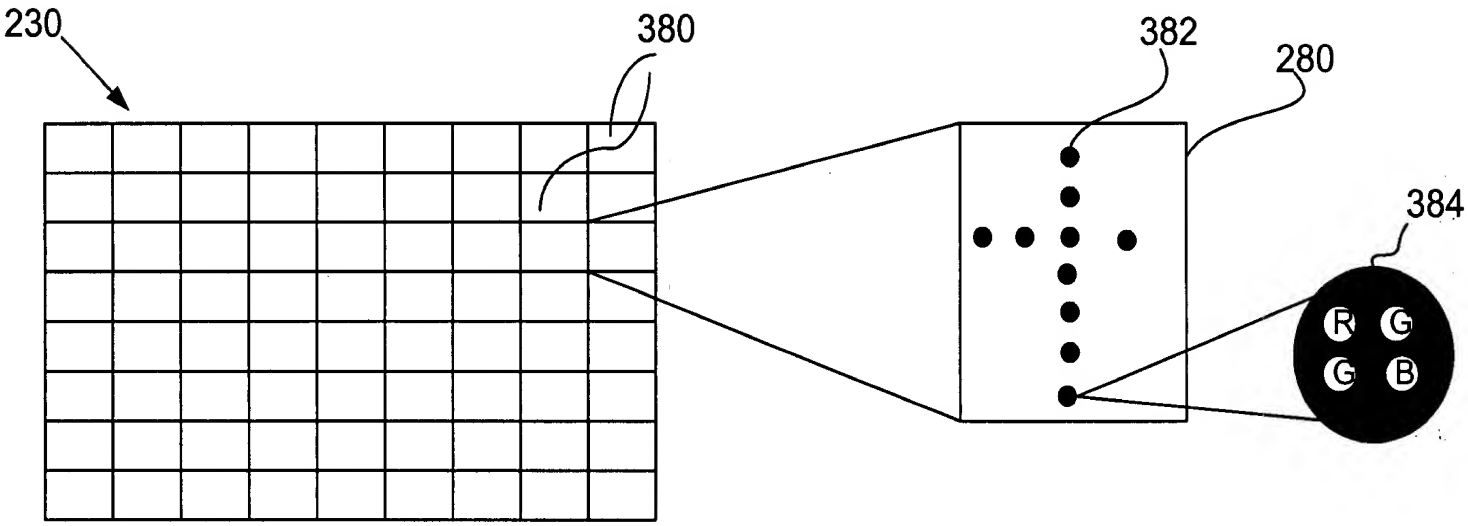

Start
Release the shutter.
352
Generate preparatory light by activating the strobe for a predetermined preparatory duration.
354
Capture preparatory image data.
356
Determine an average block luminance for subsets of the preparatory image data.
358
Multiply the average block luminances by a respective weight from the luminance weighting table to generate weighted block luminances.
360
Sum the weighted block luminances to generate the average weighted image luminance value for the preparatory image data.
362
Determine the photographic image strobe duration by accessing a look-up table in accordance with a relationship between the average image weighted luminance and a target luminance.
364
Stop

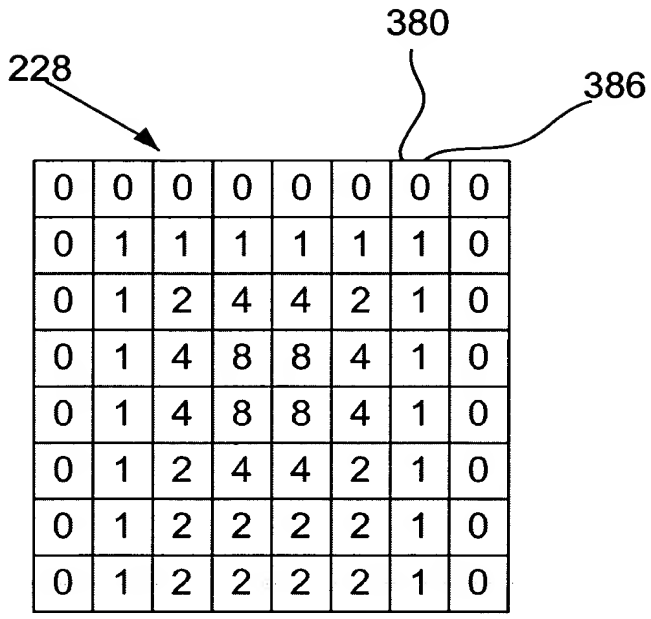
FIG. 7

20070826097860



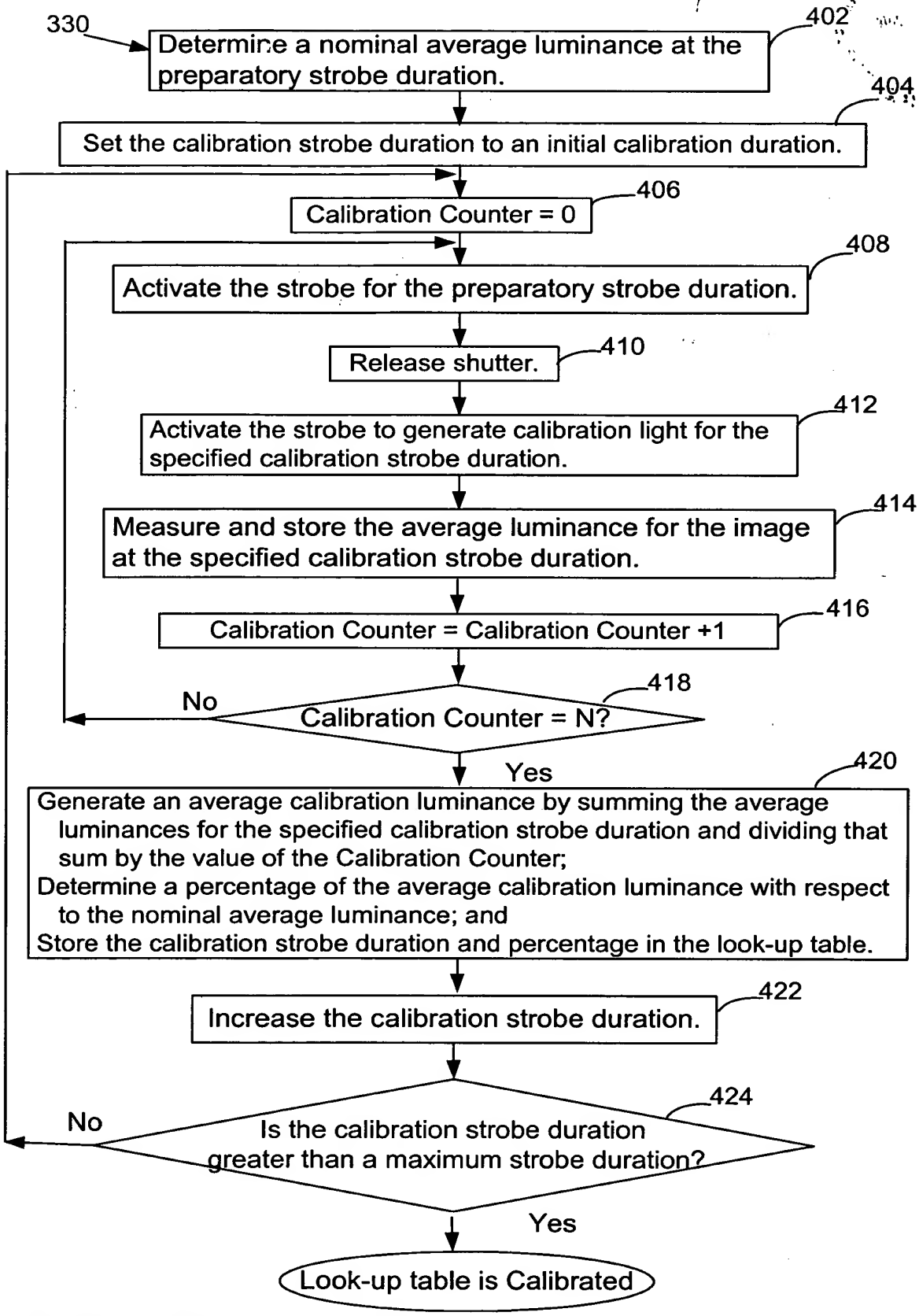
Blocks of Image Data

FIG. 8



Luminance Weighting Table

FIG. 9



Calibrating the Look-up Table

FIG. 10